Cinema Rhapsody Mach IV

Home Theater Controller

User Manual

HDMI 1.4 - April 2011

ada audio design associates®

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Safety Instructions & Electrical Warning

READ INSTRUCTIONS - All the safety and operating instructions should be read before the appliance is operated.

RETAIN INSTRUCTIONS - The operating instructions should be retained for future reference.

HEED WARNING - All warnings on the appliance and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS - All operating and use instructions should be followed.

WATER AND MOISTURE - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

LOCATION - The appliance should be installed in a stable location.

WALL OR CEILING MOUNT - The appliance should not be mounted to a wall or ceiling.

VENTILATION - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug or similar surface that may block the ventilation openings.

HEAT - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances that produce heat.

POWER SOURCES - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

GROUNDING - Make sure that this unit is always connected to a standard three-prong grounded outlet (the circular pin is ground). When operating this unit at a higher voltage with a different power cord configuration, consult your dealer for the proper power cord/outlet combination to use before operating this unit.

POWER CORD PROTECTION - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

CLEANING - The appliance should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the face plate.

POWER LINES - An outdoor antenna should be located away from power lines.

NONUSE PERIODS - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

OBJECT AND LIQUID ENTRY - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

DAMAGE REQUIRING SERVICE - The appliance should be serviced by an authorized service center or qualified service personnel when:

- The power supply cord or plug has been damaged; or
- Objects have fallen, or liquid has been spilled into the appliance; or
- The appliance has been exposed to rain; or
- The appliance does not appear to operate normally or exhibits a marked change in performance; or
- The appliance has been dropped; or the enclosure has been damaged.

SERVICING - The user should not attempt to service the appliance beyond that described in the operating instructions. For all other service requirements, the user should contact an Authorized Dealer or Service Center.

WARNING:

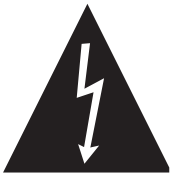
TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. REPLACE FUSE ONLY AS MARKED.

CAUTION:

TO PREVENT ELECTRIC SHOCK, DO NOT PLUG THIS UNIT INTO ANY OUTLET OR EXTENSION CORD WITHOUT THE STANDARD THREE-PRONG CONFIGURATION, WHERE THE CIRCULAR HOLE IS USED FOR THE GROUND PLUG. ANY UNITS NOT SOLD IN THE UNITED STATES OR CANADA ARE NOT SUPPLIED WITH A POWER CORD. THEREFORE, AN AUDIO DESIGN ASSOCIATES DEALER SHOULD BE CONSULTED BEFORE CONNECTING THIS UNIT TO ANY POWER SOURCE.

LINE VOLTAGE SELECTOR SWITCH AND REMOVABLE POWER CORD:

THIS UNIT IS EQUIPPED WITH A VOLTAGE SELECTOR SWITCH. IN MOST CASES, THIS SWITCH WILL REMAIN IN THE 115V POSITION (SEE PICTURE BELOW), WHICH IS HOW THE UNIT LEAVES THE FACTORY. HOWEVER, IF YOU WANT TO OPERATE THE UNIT IN AN AREA THAT USES THE 230V SETTING, CONSULT YOUR DEALER BEFORE PLUGGING THE UNIT IN. IN A CASE WHERE THE 230V SETTING WOULD BE NEEDED, AUDIO DESIGN ASSOCIATES WILL NOT PROVIDE A POWER CORD FOR THE UNIT. THEREFORE, THE USER MUST CONSULT AN AUTHORIZED DEALER OR ADA TO OBTAIN THE PROPER POWER CORD, AS WELL. **MAKE SURE THAT THE VOLTAGE SELECTOR SWITCH IS IN THE PROPER POSITION AND THAT YOU HAVE THE CORRECT POWER CORD BEFORE THIS UNIT IS PLUGGED IN AND OPERATED!**



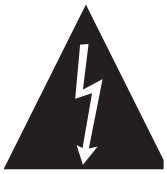
The lightning flash with the arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.

IMPORTANT

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO PREVENT RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within the equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instruction in the literature accompanying the appliance.

AC Connections

AC Connection

The Cinema Rhapsody Mach 4 features a dual-primary type of power supply that operates on 115V~/60Hz as well as 230V~/50Hz.

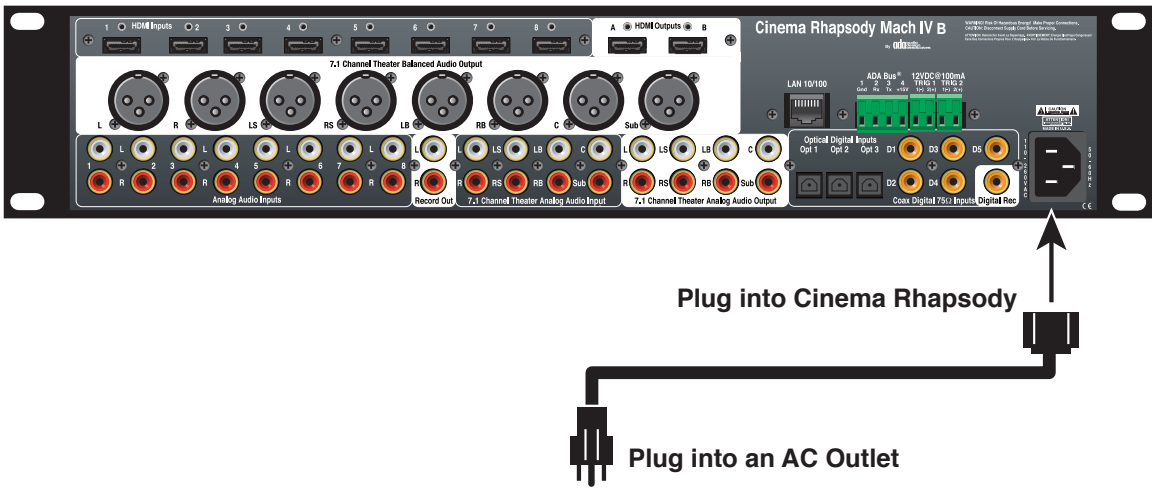
When using the Cinema Rhapsody Mach 4 with non-US Standard AC power cords, the user must supply the appropriate EIC Female to Male AC power cord.

Before You Begin

As you remove the Cinema Rhapsody Mach 4 from its packaging, inspect the condition of the component prior to proceeding with the following steps for AC connection. In the event that the Cinema Rhapsody Mach 4 appears to have suffered cosmetic damage due to shipping, please contact your Authorized ADA Dealer immediately and do not proceed to plug the unit into an AC outlet.

AC Connection

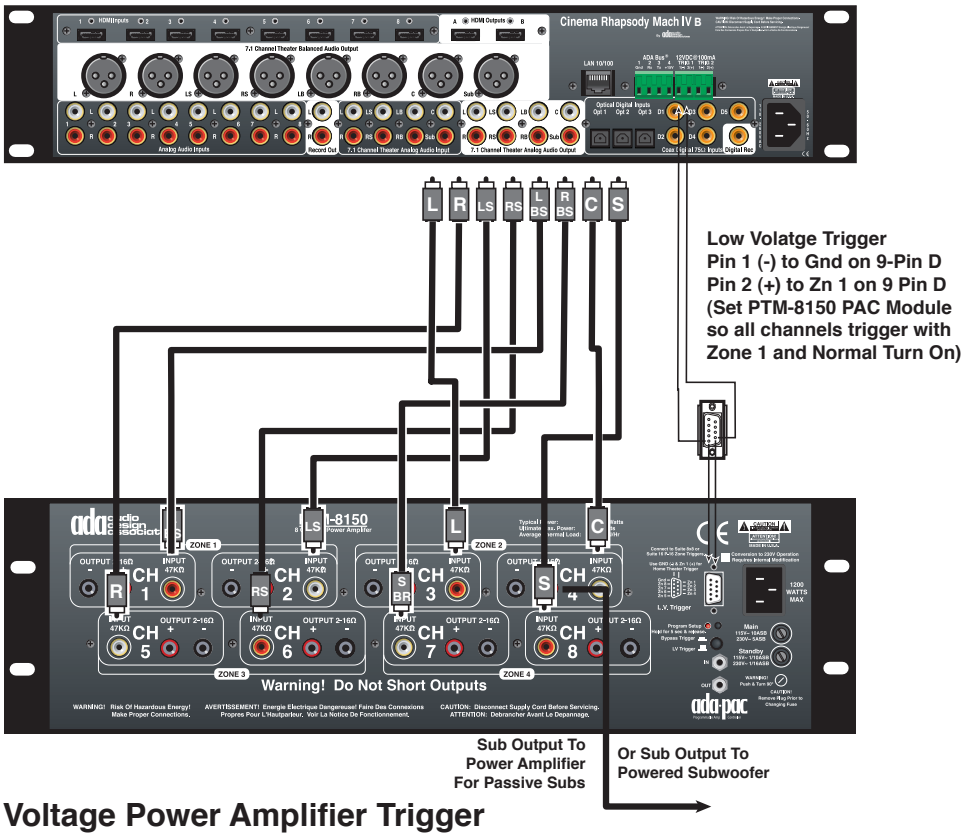
For customers who are using the U.S. standard AC receptacle, you will use the EIC AC Power Cord provided with the Cinema Rhapsody Mach 4. Simply plug this AC cord into an operative AC outlet. For customers who are using a non-U.S. standard AC receptacle, you will need to acquire an EIC AC Power Cord with the appropriate receptacle connector. ADA only provides AC Power Cords with the U.S. standard AC prongs.



Power Amplifier (& Powered Subwoofer) Connections

Audio Connections

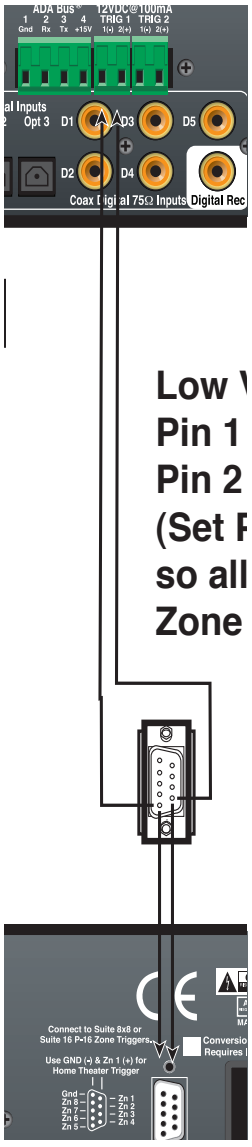
The Cinema Rhapsody's Audio Outputs are clearly marked in a white field on the back of the unit. ADA strongly suggests not using directional interconnects that lift the grounds. This diagram includes ADA's PTM-8150 Eight Channel Power Amplifier. While you may decide to vary the input arrangement if you are using a PTM-8150, the following input arrangement will cause the amplifier's front panel LED display to spread outward from Channel 4, the center channel speaker. If you are using a self-powered subwoofer, you will connect the Cinema Rhapsody Mach 4's SUB Output directly to the subwoofer and you may opt to "Y" split the SUB output to illuminate channel eight of the PTM-8150.



Low Voltage Power Amplifier Trigger

The Cinema Rhapsody Mach 4 features two low voltage triggers that can be used among other things, to turn ADA power amplifiers on and off. Unlike the switched AC outlet, which turns on and off with the Cinema Rhapsody Mach 4, the low-voltage triggers are set to track inputs on the preamplifier. In the setup mode, you can determine if either trigger one or trigger two (or both) engage with that input or not. When triggering a power amplifier using the low voltage triggers, ADA's out of the box setup has Trigger 1 engaging with all inputs.

ADA power with a PAC Module (Programmable Amplifier Controller) permit amplifier channel pairs to be assigned to track independent zone triggers (for use in multi-room systems). The amplifiers can also be set to "Fast Turn On" so that the amplifier can be used for paging (amplifier remains on and charged even when the trigger is off). In a home theater system, zone triggering and fast turn on are not required. If an ADA PAC amplifier is ordered with an ADA home theater pre-amplifier, the unit will ship with all channel pairs set to trigger with Zn 1. Also, the amplifier will be set to "Normal Turn On" so that when the trigger is removed, the amplifier will turn off completely. Here, the Mach III will also ship with a 9-pin D to two-wire cable that can be terminated to Low Voltage Trigger 1 on the Mach III as shown in the adjacent diagram. Make certain that Low Voltage Trigger Button on the back of the PAC amplifier is in the outward "LV Trigger" position.



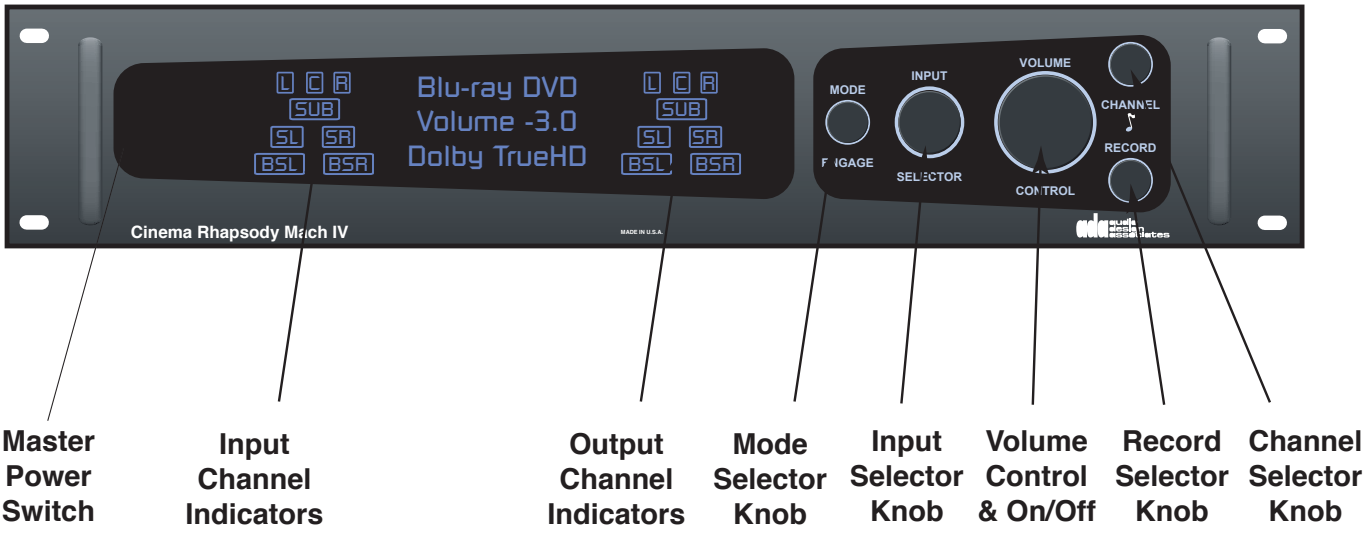
Introduction - Front Panel Controls & Displays

Overview

The Cinema Rhapsody Mach 4 is factory set for optimum operation. This section details the front panel features of the Cinema Rhapsody Mach 4. All component functions can be operated through the three control knobs located on the units front panel. The front panel displays are also explained in this section.

Welcome

The Cinema Rhapsody Mach 4 is the world's most advanced audio video surround sound preamplifier. **It is also configured "Out Of The Box" for optimum operation.** While it is designed to be easy to setup and operate, ADA strongly recommends spending some time familiarizing yourself with the units many functions and features. For those who wish to customize their home theater system, the Cinema Rhapsody Mach 4 is also equipped to be configured to operate ideally in any environment and with many varying source components. While the connection of components and accessories are discussed in the following sections, this area will explain the front panel features and basic operation commands of the Cinema Rhapsody Mach 4's front panel. The text found in italic type in this manual's margins will act as a quick reference when reviewing these materials.



Master Power Switch

Input Channel Indicators

Output Channel Indicators

Mode Selector Knob

Input Selector Knob

Volume Control & On/Off

Record Selector Knob

Channel Selector Knob

Features

The Cinema Rhapsody Mach 4 acts as both an input selector and surround sound decoder. It is capable of decoding Dolby TrueHD, DTS HD Master Audio, Multi-Channel PCM from sources that connected using an HDMI cable as well as Dolby Pro Logic, Dolby Digital (AC-3), and DTS encoded formats and also provide Lucasfilm THX Ultra 2 enhancements and filters. While the Cinema Rhapsody Mach 4 can automatically detect between Dolby Digital, DTS, Dolby Pro Logic, and Dolby Digital/Dolby Pro Logic (both decoding formats are used when playing two-channel encoded DVD discs {typically older movies available on DVD that are not mixed in six channels}), the option to engage either full THX enhancements or only THX Re-EQ must be manually set on the Cinema Rhapsody Mach 4. The Cinema Rhapsody Mach 4 also provides several additional modes ideal for music playback. There are additional settings that permit the Cinema Rhapsody Mach 4 to also operate in home theaters where a full eight channel speaker array may only be partially implemented (i.e. no back surround and/or no center channel). Furthermore, the Cinema Rhapsody Mach 4 also permits each channel to be set to its own volume level with respect to all other channels as well as have its own delay setting. These features and more are discussed in the upcoming sections.

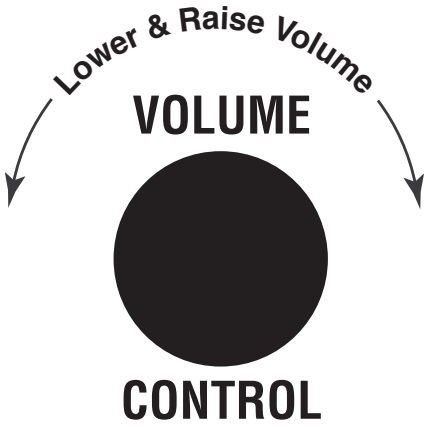
Power On, Mute, Off, & Master Volume Control

When the Cinema Rhapsody Mach 4 is off, turning any knob or pushing any knob other than the Volume knob will cause the Cinema Rhapsody Mach 4's center LCD display to indicate that you need to push the knob to turn it on.

To turn on the Cinema Rhapsody Mach 4, providing the unit is not in Mute, press the Volume knob once.

Pressing of the Volume knob performs only three functions.

If the unit is off, pressing it will turn it on.
If the unit is on, pressing it will engage Mute.
If the unit is on, pressing and holding it will turn it off.

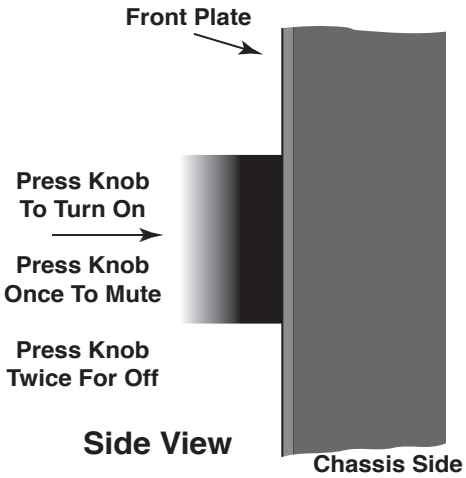


(To regain the audio (exit Mute), turn or press the Volume knob).

Once the Cinema Rhapsody Mach 4 is on, turning the Volume knob will only raise or lower the system's volume level. This is considered the Master Volume Control as it will adjust all eight channels of volume, maintaining the balance of levels that are preset between channels.

Power On

Press the Cinema Rhapsody Mach 4's Volume knob to engage power on.



Mute

While the Cinema Rhapsody Mach 4 is on, pressing it's Volume knob once will mute all channels.

Power Off

Pressing and holding the Volume knob will turn the Cinema Rhapsody off.

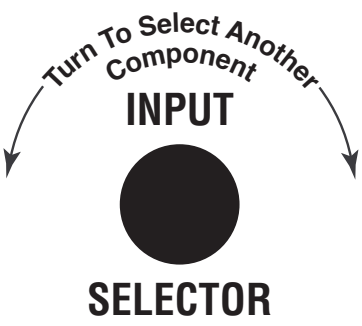
Un-Mute

While the Cinema Rhapsody is in Mute, turning or pressing the volume knob, will regain audio.

Power On/Off Via AC Control

If the Cinema Rhapsody is on when it is unplugged or when power is removed through the use of an AC Controller, it will also automatically turn back on when power is restored.

Input Selector

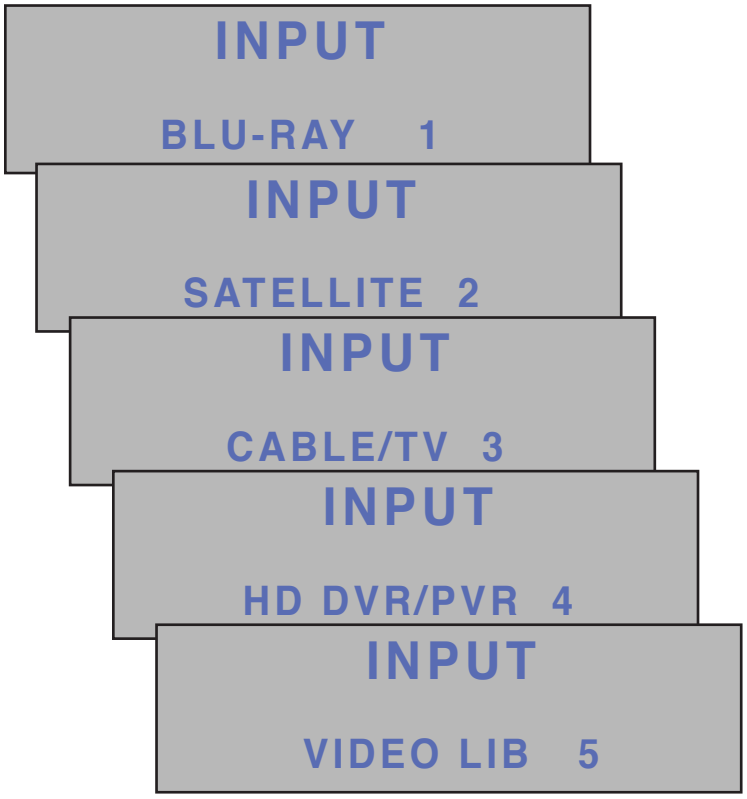


The Cinema Rhapsody Mach 4 permits you to scroll to the next input without having all of the components you are passing actively process through the Cinema Rhapsody Mach 4. This prevents the clicking that is commonly associated with changing TV channels up and down. To best access another component from the front of the Cinema Rhapsody Mach 4, turn the Input Selector knob. As you turn this knob, you will notice that the top row of the LCD display will advance through the input names until the desired component is displayed while the current component in use (in this example, BLUE RAY DVD) remains unchanged in the "Current Input" section.

Front View

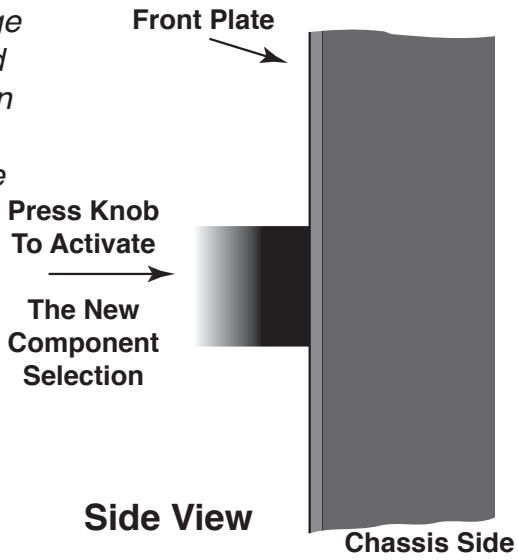
1 Dial In New Input

Turn the Input Selector knob until the top line of the LCD display reads the component you wish to select. As you turn the knob, you will notice that the "Current Input" section of the display still indicates the current source in play. Also, this component is still being routed and processed by the Cinema Rhapsody Mach 4.



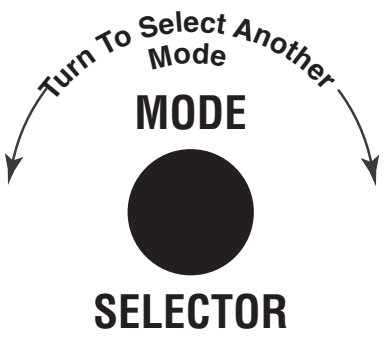
2 Engage New Input

Once the top line of the display indicates the next component you wish to access, press the Input Selector knob to engage this input. This method permits you to select an input without switching all of the inputs you are scrolling through.

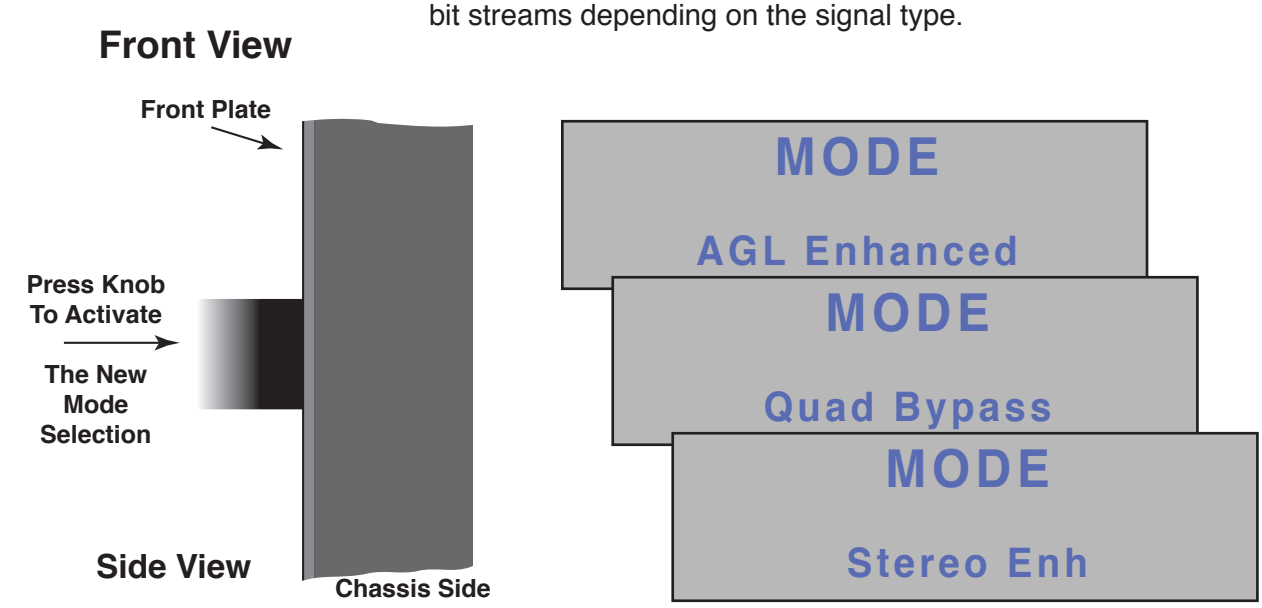


Once the desired component is displayed on the LCD's top row, press the Input Selector knob to engage that component. The display will then return to read the new selection (i.e. Video Game).

Mode Selector & Mode Descriptions



The Cinema Rhapsody Mach 4 permits you to scroll through available modes without necessarily engaging the mode until you have found the one you wish to use. As you turn the mode knob, the top line of the Cinema Rhapsody Mach 4's display will read the modes available. The lower left-hand of the display indicates the current mode. When the desired mode displayed on the top line, press the Mode knob. The new mode will now engage and its name will display in the lower left-hand corner of the display. The Cinema Rhapsody Mach 4 only displays Multi-Channel Modes when it detects a multi-channel signal present (i.e. 5.1). Otherwise it defaults to just displaying Two-Channel modes. When displaying Multi-Channel modes, note that Direct and Discrete decode DTS or Dolby Digital bit streams depending on the signal type.



Two-Channel Modes

Direct 2.0	LF/RF	Two-channel & no audio processing, Fronts speakers Large
Stereo	LF/RF/Sw	Two-channel with Subwoofer
Mono	C	Center speaker down-mix to mono

DTS NEO Audio Stream Processing Algorithm

NEO6 3Channel	LF/RF/C/Sw	Front speakers with subwoofer
NEO6 Phantom	LF/RF/LS/RS/Sw	No Center speaker & Center channel to Front Right & Left speakers
NEO6 5Channel	LF/RF/C/LS/RS/Sw	No Back Surround Speakers
NEO6 Movie	LF/RF/C/LS/RS/LB/RB/Sw	Full Speaker array
NEO6 Mve +THX	LF/RF/C/LS/RS/LB/RB/Sw	Full Speaker array with THX filters
NEO6 Music	LF/RF/C/LS/RS/LB/RB/Sw	Full Speaker array design for music playback

Dolby Pro Logic Audio Stream Processing Algorithm

Pro Logic 3Ch	LF/RF/C/Sw	Front speakers with subwoofer
Pro Logic Phan	LF/RF/LS/RS/Sw	No Center speaker & Center channel to Front Right & Left speakers
Pro Logic	LF/RF/C/LS/RS/LB/RB/Sw	Full Speaker array
Pro Logic +THX	LF/RF/C/LS/RS/LB/RB/Sw	Original Pro Logic with full Speaker array with THX filters

Dolby Pro Logic IIx Audio Stream Processing Algorithm

PL2 Matrix	LF/RF/C/LS/RS/LB/RB/Sw	For Mono signals, fills speaker array
PL2 Game	LF/RF/C/LS/RS/LB/RB/Sw	For Video Games encoded by Dolby in 2-Channel
PL2 Music	LF/RF/C/LS/RS/LB/RB/Sw	For Music - permits adjustment of PLII features
PL2 Movie	LF/RF/C/LS/RS/LB/RB/Sw	For Film & TV - Greater spatial separation than PL, full bandwidth

Dolby Pro Logic IIx Audio Stream Processing Algorithm (Continued)

PL2 Mve +THX	LF/RF/C/LS/RS/LB/RB/Sw	Adds THX filters to Pro Logic 2 Movie
PL2 Custom	LF/RF/C/LS/RS/LB/RB/Sw	Custom settings for Pro Logic 2 Movie - permits adjustment of PL II
PL2 Cstm1 +THX	LF/RF/C/LS/RS/LB/RB/Sw	Adds THX filters to PL Custom mode (above)
PL2 Custom 2	LF/RF/C/LS/RS/LB/RB/Sw	Custom 2 settings for Pro Logic 2 Movie - permits adjustment of PL IIPL2
Cstm2 +THX	LF/RF/C/LS/RS/LB/RB/Sw	Adds THX filters to PL Custom mode (above)
PL2 Custom 3	LF/RF/C/LS/RS/LB/RB/Sw	Custom 3 settings for Pro Logic 2 Movie - permits adjustment of PL IIPL2
Cstm3 +THX	LF/RF/C/LS/RS/LB/RB/Sw	Adds THX filters to PL Custom mode (above)

ADA Proprietary Modes (ADA's Favorites)

AGL Enhanced	LF/RF/C/LS/RS/LB/RB/Sw	Based on Pro Logic, AGL is an auto-sensing 2-channel mode
Quad Bypass	LF/RF/C/LS/RS/LB/RB/Sw	For Music - Creates excellent music image using full speaker array
Stereo Enh	LF/RF/C/LS/RS/LB/RB/Sw	For Stereo Signals - Simulated surround w/control of room size
Mono Enh	LF/RF/C/LS/RS/LB/RB/Sw	For Mono Signals - Simulated surround w/control of room size
Stereo 5	LF/RF/C/LS/RS/LB/RB/Sw	Distributes stereo to entire speaker array
Mono 5	LF/RF/C/LS/RS/LB/RB/Sw	Distributes mono to entire speaker array

Room Simulation Modes with Reverb Customization

Cinema	LF/RF/C/LS/RS/LB/RB/Sw	For Film - Uses the entire speaker array
Club	LF/RF/C/LS/RS/LB/RB/Sw	For Music - Uses the entire speaker array
Hall	LF/RF/C/LS/RS/LB/RB/Sw	For Music - Uses the entire speaker array
Arena	LF/RF/C/LS/RS/LB/RB/Sw	For Music - Uses the entire speaker array
Cathedral	LF/RF/C/LS/RS/LB/RB/Sw	For Music - Uses the entire speaker array
Quad Reverb	LF/RF/C/LS/RS/LB/RB/Sw	For Music - Uses the entire speaker array

Multi-Channel Modes

Direct 7.1	LF/RF/C/LS/RS/LB/RB/Sw	7.1 direct from source, LFE but no bass management
Dnmix Stereo	LF/RF/Sw	2 Channel downmix with subwoofer
Dnmix Mono	C	2 Channel downmix to mono with Center speaker & Subwoofer
Dnmix 3Channel	LF/RF/C/Sw	2 Channel downmix to Front speakers & Subwoofer
Dnmix Phantom	LF/RF/Sw	2 Channel downmix to Front right & left speakers and Subwoofer

Ideal Modes for DTS or Dolby Digital Signals

Discrete	LF/RF/C/LS/RS/LB/RB/Sw	DTS or Dolby Digital 7.1 direct from source with bass management
Discrete +THX	LF/RF/C/LS/RS/LB/RB/Sw	Above Mode with THX Enhancements
Discrete EX/ES	LF/RF/C/LS/RS/LB/RB/Sw	Same as Discrete but uses DTS ES or DD EX flags
THX Surr EX/ES	LF/RF/C/LS/RS/LB/RB/Sw	Above Mode with THX Enhancements

DTS NEO Audio Stream Processing Algorithm

NEO6 Movie	LF/RF/C/LS/RS/Sw	Downmix to 2-Channel & then processed via NEO6 Matrix
NEO6 Mve +THX	LF/RF/C/LS/RS/Sw	Above Mode with THX Enhancements
NEO6 Music	LF/RF/C/LS/RS/Sw	Downmix to 2-Channel & then processed via NEO6 Music Matrix

Dolby Pro Logic Audio Stream Processing Algorithm

PL2x Movie	LF/RF/C/LS/RS/LB/RB/Sw	Downmix to 2-Channel & then processed via PL II Movie Matrix
PL2x Mve +THX	LF/RF/C/LS/RS/LB/RB/Sw	Above Mode with THX Enhancements
PL2x Music	LF/RF/C/LS/RS/LB/RB/Sw	Downmix to 2-Channel & then processed via PL II Music Matrix

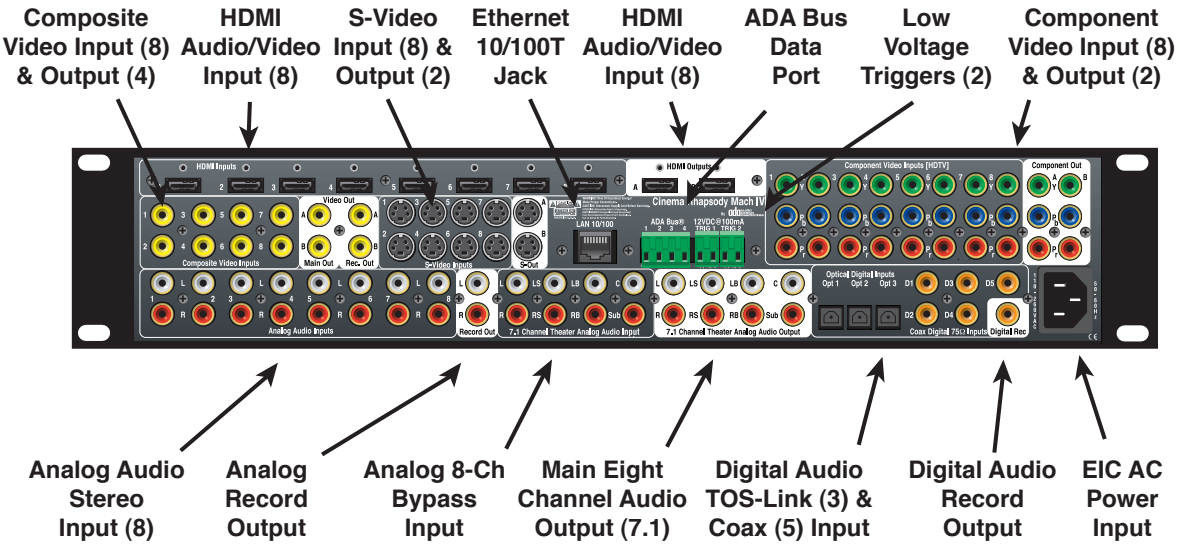
THX Modes

THX Ultra2 Mve	LF/RF/C/LS/RS/LB/RB/Sw	For Film - 7.1 direct from source with THX Ultra 2 Enhancements
THX Ultra2 Gme	LF/RF/C/LS/RS/LB/RB/Sw	For Games - 7.1 direct from source w/THX Ultra 2 Enhancements
THX Ultra2 Msc	LF/RF/C/LS/RS/LB/RB/Sw	For Music - 7.1 direct from source w/THX Ultra 2 Enhancements

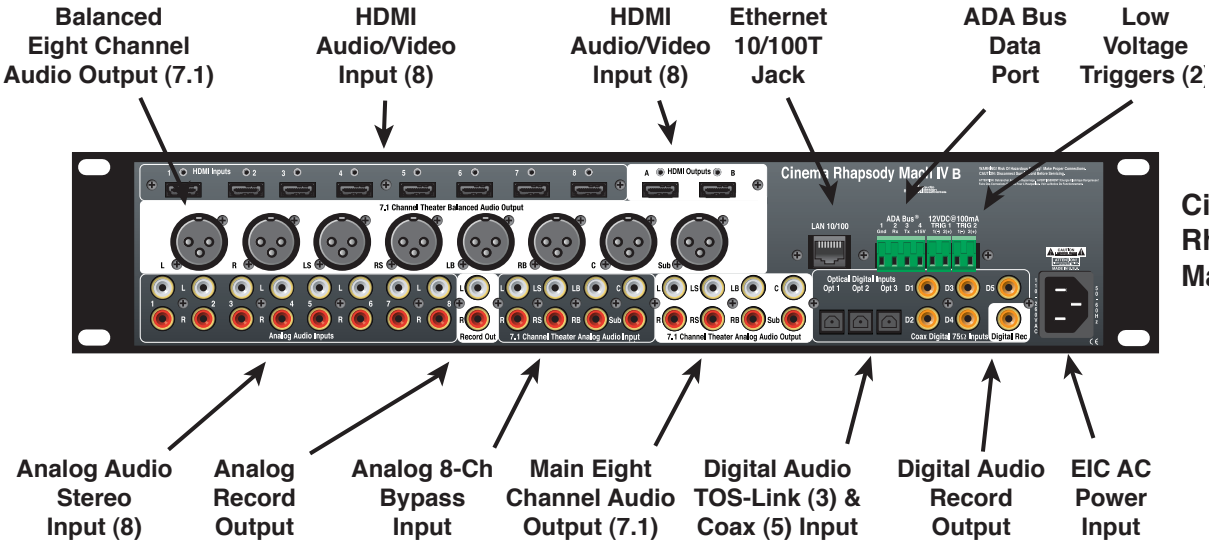
Room Simulation Modes

Dmx Cinema	LF/RF/C/LS/RS/LB/RB/Sw	Downmix to 2-Channel then Cinema mode with Reverb
DmxClub	LF/RF/C/LS/RS/LB/RB/Sw	Downmix to 2-Channel then Club Mode with Reverb
DmxHall	LF/RF/C/LS/RS/LB/RB/Sw	Downmix to 2-Channel then Hall Mode with Reverb
DmxArena	LF/RF/C/LS/RS/LB/RB/Sw	Downmix to 2-Channel then Arena Mode with Reverb
DmxCathedral	LF/RF/C/LS/RS/LB/RB/Sw	Downmix to 2-Channel then Cathedral Mode with Reverb
DmxQuadReverb	LF/RF/C/LS/RS/LB/RB/Sw	Downmix to 2-Channel then Quad Mode with Reverb

Rear Panel Connections


Composite Video Input (8) & Output (4)
HDMI Audio/Video Input (8)
S-Video Input (8) & Output (2)
Ethernet 10/100T Jack
HDMI Audio/Video Input (8)
ADA Bus Data Port
Low Voltage Triggers (2)
Component Video Input (8) & Output (2)
Analog Audio Stereo Input (8)
Analog Record Output
Analog 8-Ch Bypass Input
Main Eight Channel Audio Output (7.1)
Digital Audio TOS-Link (3) & Coax (5) Input
Digital Audio Record Output
EIC AC Power Input

Cinema Rhapsody Mach 4


Balanced Eight Channel Audio Output (7.1)
HDMI Audio/Video Input (8)
HDMI Audio/Video Input (8)
Ethernet 10/100T Jack
ADA Bus Data Port
Low Voltage Triggers (2
Analog Audio Stereo Input (8)
Analog Record Output
Analog 8-Ch Bypass Input
Main Eight Channel Audio Output (7.1)
Digital Audio TOS-Link (3) & Coax (5) Input
Digital Audio Record Output
EIC AC Power Input

Cinema Rhapsody Mach 4-B

Out of the Box Input Configuration

The "Out of the Box" input configuration is easy to follow and offers connection of as many as 20 components without adjustment of the Cinema Rhapsody Mach 4's input configurations (providing that the sources have the appropriate outputs). Below is a chart showing the Cinema Rhapsody Mach 4's 20 "input labels" and the assignment of the HDMI (audio & video signal) and audio jacks on the rear panel of the unit. Also shown here are the default surround sound modes for the respective inputs when playing 5.1 or 2 channel material.

INPUT #	INPUT LABEL	VIDEO INPUT	AUDIO INPUT	COMPOSITE VIDEO INPUT	S-VIDEO INPUT	COMPONENT VIDEO INPUT	DC LOW VOLTAGE 1	DC LOW VOLTAGE 2	DEFAULT 5.1	DEFAULT 2.0
1	BLU-RAY DVD	HDMI 1	HDIMI	1	1	1	ON	ON	DISCRETE+EX/ES	PLII MOVIE
2	SATELLITE	HDMI 2	HDMI	2	2	2	ON	ON	DISCRETE+EX/ES	PLII MOVIE
3	CABLE/TV	HDMI 3	HDMI	3	3	3	ON	ON	DISCRETE+EX/ES	PLII MOVIE
4	HD DVR/PVR	HDMI 4	HDMI	4	4	4	ON	ON	DISCRETE+EX/ES	PLII MOVIE
5	VIDEO SERVER	HDMI 5	HDMI	5	5	5	ON	ON	DISCRETE+EX/ES	PLII MOVIE
6	VIDEO GAME	HDMI 6	HDMI	6	6	6	ON	ON	THX GAMES	PLII GAME
7	HD VCR	HDIM 7	HDMI	7	7	7	ON	ON	DISCRETE+EX/ES	PLII MOVIE
8	HD CAMERA	HDMI 8	HDMI	8	8	8	ON	ON	DISCRETE+EX/ES	PLII MOVIE
9	IPOD DOCK	OFF	ANALOG 1	Off	Off	Off	ON	OFF	THX MUSIC	QUAD BYPASS
10	RADIO TUNER	OFF	ANALOG 2	Off	Off	Off	ON	OFF	THX MUSIC	QUAD BYPASS
11	MULTI-ROOM	OFF	ANALOG 3	Off	Off	Off	ON	OFF	THX MUSIC	QUAD BYPASS
12	PHONOGRAPH	OFF	ANALOG 4	Off	Off	Off	ON	OFF	THX MUSIC	QUAD BYPASS
13	CD PLAYER	OFF	OPTICAL 1	Off	Off	Off	ON	OFF	THX MUSIC	QUAD BYPASS
14	COMPUTER	OFF	OPTICAL 2	Off	Off	Off	ON	OFF	THX MUSIC	QUAD BYPASS
15	MUSIC SERVER	OFF	DIGITAL 1	Off	Off	Off	ON	OFF	THX MUSIC	QUAD BYPASS
16	DVD AUDIO	OFF	DIGITAL 2	Off	Off	Off	ON	OFF	THX MUSIC	QUAD BYPASS
17	SACD PLAYER	OFF	DIGITAL 3	Off	Off	Off	ON	OFF	THX MUSIC	QUAD BYPASS
18	DAT PLAYER	OFF	DIGITAL 4	Off	Off	Off	ON	OFF	THX MUSIC	QUAD BYPASS
19	LASER AC-3	OFF	DIGITAL 5	1	1	Off	ON	ON	DISCRETE+EX/ES	PLII MOVIE
20	LASER DTS	OFF	DIGITAL 6	1	1	Off	ON	ON	DISCRETE+EX/ES	PLII MOVIE

Custom Input Configuration

The Cinema Rhapsody Mach 4 is an incredibly flexible home theater controller that can accommodate a wide array of components. For easy and quick setup, one can use the “Out of the Box” input configuration. One can also elect to do a completely “Custom Input” configuration or a combination of “Out of the Box” and “Custom Input” configurations.

There are several Cinema Rhapsody Mach 4 features specific to each input including:

Input Labeling - The ability to rename input labels to match more closely a specific setup. For example, you can relabel the input labeled SATELLITE to read DSS SAT. You need to limit the input label to 12 characters including spaces, symbols and numbers. ADA strongly suggests that as you rename inputs, you maintain their numeric reference (i.e. the 3 in CABLE/TV **3**). From a control standpoint, this will make it easier to maintain a link between the input and the input command.

Final Input - The ability to reduce from 20, the number of input labels seen turning the input knob. If you have say only six components, you can limit the Final Input number to read 6. Please note that this eliminates the display from showing input labels 7-20. If you had an input label that you wanted to use above input label 6 (i.e. MULTI-ROOM), you would relabel one for the first six inputs to read MULTI-ROOM. Obviously, you may also need to re-assign input jacks (see below).

AV Input Jack Assignment - The ability to have HDMI & audio input jacks track input labels as they are selected. If you are assigning an AV source using an HDMI input, you can opt to route the audio via the HDMI input or alternately, via an analog or digital audio input. Typically you will select HDMI for the audio input as this permits the Suite 7.1 to process the high-resolution audio formats (Dolby TrueHD, DTS-HD Master Audio, or multi-channel PCM). For audio only sources (analog or digital), you can turn the HDMI input OFF or alternately, you can select a specific video input. For example, if while listening to the music playing in the multi-room system you wish to also watch the video image of the satellite receiver (a sporting event), you could have the Satelllite’s HDMI jack track the audio from the Multi-Room input.

Default Modes - When an input is selected, pre-assigned modes for 5.1 or 2 channel audio automatically engage. This way, the best possible mode always engages.

Input Presets - There are a total of six features that can be engaged when an input is selected. These include a starting volume preset, balance preset (includes levels and delays), tone preset, parametric equalizer (PEQ) preset, and speaker preset which includes active speakers, whether they roll-off and their roll-off frequency. The last feature involves setting an audio delay for that input.

HDMI Downmix - The ability to have the TV play audio via its internal speakers.

While you can limit the number of inputs to just the number of sources that are connected (using Final Input) and then rename (Input Labeling), re-link the sources (AV Input Jack Assignment), and assign surround modes (Default Modes), the ability to custom label inputs has other benefits.

For example, if the DVD player is used for both film and music playback, you could create an input label called DVD FILM and a second input label called DVD MUSIC. While both labels would access the same AV Input Jack, you could then set a set of Default Modes for DVD FILM that were film like (i.e. DISCRETE+EX/ES & PLII MOVIE) while the Default Modes for DVD MUSIC were set to THX MUSIC and QUAD BYPASS. This way, the user simply selects the appropriate input and does not think about then selecting modes. Note that if you are going to use multiple input labels for one or more sources, your Final Input number will need to be increased.